CONTENTS

SYMPOSIUM A

A-1 *Use of Teams for Organizational Change* -- William E. Kraus, PE CCE
A-2 *Quality Performance Management in Engineering/Construction* -- Terry A. Neese and William B. Ledbetter
A-3 *Statistical Process Control in Project Management* -- George P. Moore and David A. Hendrick
A-4 *Statement of Values -- Purchasing's Role in Quality* -- George C. Belev

SYMPOSIUM B

B-1 *Designing for Constructability* -- Walter J. Boyce
B-2 *Estimating Railroad Reconstruction under Service* -- Stewart D. Winn, Jr., PE and P. Takis Salpeas
B-3 *Value Engineering Study for Temporary Buildings* -- Wesley R. Querns, CCE
B-4 *Value Engineering in Engineering/Construction* -- Farid F. Mansour, PE CCE
B-5 *Constructability and the Cost Engineer* -- Robert H. Harbuck, PE
B-6 *Convening a Professional AACE Section Seminar* -- Frank W. Smith, CCE

SYMPOSIUM C

C-1 *Construction Scheduling -- Don't Depend on a Textbook* -- Brett M. McPherson and Daniel J. Whitecotton
C-2 *Selecting As-planned Base in Project Disputes* -- Calin Popescu, PE
C-3 *Cost/Schedule Control vs Computer Programs* -- Rohit Singh, CCE
C-4 *Correlations Useful in Profitability Analysis* -- Henry C. Thorne, CCE
C-5 *Inflation Concepts in Project Evaluation* -- Julian A. Piekarski, PE CCE

SYMPOSIUM D

D-1 *Effective Subcontractor Management in High-tech Projects* -- Nghi M. Nguyen, PE
D-2 *Army Aviation: Economic/Cost/Operations Research Analysis* -- Edward P. Laughlin
D-3 *Computer-aided Engineering Integrates Product Development* -- Eugene S. Rosenbaum and Frank D. Postula, PE CCE
D-4 *Designing for Cost* -- Edwin B. Dean and Resit Unal

SYMPOSIUM E

E-1 *Project Commencement Delays on Architectural Projects* -- Stephen F. Rusteika, Jr.
E-2 *Subcontractor Failure: Case History* -- Jeffrey S. Russell and Michael W. Radtke
E-3 *Preaward Contract Audits -- A Claims Avoidance Procedure* -- Sherry M. Rice
E-4 *Improving Construction Bonding Capacity* -- Neil D. Opfer and Kreg Koehler
E-5 *Improve Your Profits by Understanding Claim Analysis* -- Ignacio Manzanera, CCE and Khaled A. Bubshait
E-6 *Concurrency in Major Projects* -- Jean-Claude Huot, PE

SYMPOSIUM F

F-1 *Estimating the Cost of Developmental Equipment* -- Greg L. Stamp
F-2 *Using AI to Estimate Developmental Equipment Costs* -- David R. Arenz
F-3 *The Volume/Method Matrix in Manufacturing Cost Engineering* -- Gordon F. Gantz, CCE
F-4 *Why Flexible Manufacturing Systems are Here to Stay* -- William J. Fife, Jr.
F-5 *Conceptual Estimating: Productivity Improvements at Kodak* -- Joseph A. Lukas
F-6 *How to Uncover Program Cost Risks* -- Robert M. Smith, PE
F-7 *Multiple Improvement Curve Effects upon Productivity* -- Robert C. Creese and B.P. Madhu Sudhan
F-8 *Total Quality through Process Flowcharting* -- Murray W. Janzen
F-9 *Cost Engineering in Microelectronics* -- Frederick J. Koons
F-10 *Efficient Control of Multiple Small Projects* -- Timothy M. Wozniak

SYMPOSIUM G

G-1 *Learning to Live with Probable Outcomes* -- Lanny Golden
G-2 *Historical Data-driven Range Estimating* -- Thomas W. Townley, CCC
G-3 *Range Estimating in Value Engineering* -- William P. Rowland and Kevin M. Curran
G-4 *Parametric Screening of International Venture Estimates* -- Carlton W. Karlik, PE

SYMPOSIUM H

H-1 *Construction Competitiveness in the 21st Century* -- Janet K. Yates
H-2 *Elemental Cost Classification Standard for Building Design* -- Brian Bowen, CCE and Robert P. Charette, PE
H-3 *Cost Estimate Documentation* -- James C. Harter
H-4 *Cost Management: Trades vs Systems Estimating* -- David J. Poffenberger, PE CCE
H-5 *Practical Cost Estimation in a Competitive Environment* -- Osama Moselhi, Tarek Hegazy, and Paul Fazio
H-6 *Rules-of-Thumb in the Construction Industry* -- James R. Kwapil, CCE; William G. Clark, CCE; and Charles L. Osborn
H-7 *Estimating North Slope Truckable Modules* -- William A. Janda, CCE

SYMPOSIUM I

I-1 *Improving Your "Scheduling CAD" Productivity* -- Philip T. Perzanowski, CCE
I-2 *Power Plant Dismantling Cost Studies* -- Ted W. Wilson, PE CCE and James H. Norwood, PE
I-3 *Understanding the Costs and Schedule of Hydroelectric Projects* -- Edward W. Merrow and Brett R. Schroeder
I-4 *Momentum Theory: A New Technique for Cost Analysis* -- Richard A. Mazzini, PE CCE
I-5 *A Winning Business Planning Process* -- Robert J. Kyle and Alfred Z. Matos
I-6 *WBS Criteria for Effective Project Control* -- Frank D. Postula, PE CCE

SYMPOSIUM J

J-1 *Environmental Project Controls -- A Government Perspective* -- Marc A. Zocher and Gary E. Thompson
J-3 *Nuclear Hazardous Waste Cost Control Management* -- Richard A. Selg, CCE
J-4 *Decisions in the Marketplace* -- Bruce A. Martin, CCE and Kenneth R. Cressman, CCE
J-5 *Govalle Wastewater Interception and Diversion Tunnel* -- Brian Van Weele
J-6 *Tunneling for the Downtown Seattle Transit Project* -- Thomas L. Conley, PE and Vladimir Khazak

SYMPOSIUM K

K-1 *Buyer Beware! -- Procurement and Project Controls* -- Raymond H. Lennark, PE CCE
K-2 *Schedule Games People Play and Some Suggested Remedies* -- James G. Zack, Jr.
K-4 *Owners Specify Contractor's Estimating/Scheduling Systems* -- Thomas L. Goff
K-5 *Estimate and Project Risk Analysis Approaches* -- Sam L. Shafer, PE
K-6 *Resource Scheduling -- Is AI the Answer?* -- Richard E. Westney, PE
K-7 *An Investment Analysis Model for Space Mining Ventures* -- Knut I. Oxnevad

SYMPOSIUM L

L-1 *Productivity in the UK Construction Industry* -- Les Ruddock
L-2 *Construction Site Utilization: Impact of Material Movement and Storage on Productivity and Cost* -- Frederick B. Muehlhausen
L-3 *A Methodology for Measuring Construction Productivity* -- Foster M. Burton
L-4 *Earned Value Graphics -- New, Exciting, Innovative* -- Donald J. Cass, CCE

SYMPOSIUM M

M-1 *Building Design Estimate Accuracy: What's Reasonable?* -- Anthony L. Huxley
M-2 *Cost Control in Design-Build* -- John G. Fish, CCE
M-3 *Direct Range Estimating for Change Orders* -- John R. Knoke, PE and John R. Spittler, PE
M-4 *CSRF Offering NAVFAC CES on PC* -- James E. Rich, CCE

SYMPOSIUM N

N-1 *Construction Software: The Winners Are. . .* -- Thomas E. Cooper, PE
N-2 *Automatic BQ Pricing* -- R. Martin Skitmore and Mark Smith
N-3 *Characteristics and Design of Decision Support Systems* -- Ghazanfer Bozai

SYMPOSIUM O

O-1 *Appraisal of a Potential Acquisition in Foreign Countries* -- John E. Barry
O-2 *Labor Cost Calculations in International Construction* -- Enno Koehn, PE and D.C. Regmi
O-3 *A Bridge Management System for Texas* -- George Stukhart, PE
O-4 *Applying Earned Value Procedure to Engineering Management* -- Mark T. Chen
O-5 *Cost Control -- The Tricks and Traps* -- Leslie E. McMullan
O-6 *Cradle-to-Grave Materials Management System* -- James C. Puckett, PE CCE; Ronald L. Stauss; and Cynthia Wilson

SYMPOSIUM O (continued)

O-7 *Implementing an Owner's Cost Control System* -- Ron F. Cagle

SYMPOSIUM SK

SK-1 *New Directions in Schedule Management* -- Gui Ponce de Leon, PE
SK-2 *Claims Management in the Contract Startup Phase* -- Gui Ponce de Leon, PE
SK-3 *Project Control -- Data, Information, and Computers* -- Jack F. Enrico, CCE
SK-4 *Decision Analysis* -- James M. Neil, PE CCE
SK-5 *Management Reporting* -- Joseph J. Orczyk, PE

SYMPOSIUM W

W-O *Certification Examination Study Guide*

AUTHOR INDEX